

[0077] Moreover, the inverse conversion produces the original data from the data resulting from conversion as follows.

Original Data =  $(([49] + (\text{Modulo: } 127) * m) \text{ l.c.m. } [ \text{Generator: } 3 ]) / ([ \text{Generator: } 3 ]) = 101$   
(here, l.c.m. = 303 because  $m = 2$ )

Please replace paragraph [0078] with the following paragraph:

[0078] By utilizing the Hash function described above, an encryption function  $Y = \text{Hash}(X)$  of this embodiment is defined as follows.

[x: (decimal number)] : [Y: (8-digit binary number)]

0 : 11111111

1-126 : data whose first bit is “01” and the 7

following bits are a binary number obtained by applying

the Hash conversion to original data X (1-126).

127 : 10000000

128 : 01111111

129-254 : data whose first bit is “0” and the 7

following bits are a binary number obtained by applying

the Hash conversion to original data X (129-254) minus 128.

255 : 00000000

Please replace paragraph [0081] with the following paragraph:

[0081] Data before and after conversion are delimited by the increments of two digits, and are regarded as hexadecimal numbers to which the above-described encryption function is applied.

[Modulo: Prime Number] = 127 (decimal)

[Generator] = 3

[Original Data] = 20010831 (which is regarded as if it is 8-digit hexadecimal number, and is delimited by the increments of two digits to which the encryption function is applied.)

[Case1 Data Resulting From Conversion]

----“<sup>1</sup>” means “Inverse Conversion”

E0\_83\_98\_94

They are computed by equation(1) whose “Original Data” is 2

figures from “20,01,08,31” as 2 figures hexadecimal.

[Case 2: Data Resulting From Conversion]<sup>-1</sup>

“<sup>1</sup>” means “Inverse Conversion”

B5\_D5\_AD\_E5

They are computed by equation(2) whose “Data Resulting From

Conversion” is 2 figures from “20, 01, 08, 31” as 2 figures hexadecimal.

[After ~~Inverse~~ Recovery Conversion]

20\_01\_08\_31 (date (August 31, 2001) is restored)

They are computed by equation(1) whose “Original Data” is 2 figures from

“B5, D5, AD, E5” as 2 figures hexadecimal.